

Applicant: Stephen M. Zappala
For: Implantable Device and Method for Managing Erectile Dysfunction

1 1. A device for managing a patient's erectile dysfunction, comprising,
2 at least one power source member that is adapted to be implanted in the patient's
3 lower abdominal wall;
4 at least one pulse generating member that is adapted to be implanted in the
5 patient's lower abdominal wall; and
6 at least one electrode that is adapted to be implanted at the suprapubic level of the
7 patient's neurovascular bundle of the phallus, is connected to said power source member and
8 pulse generator, and is adapted to electrically stimulate the neurovascular bundle upon selective
9 activation by the patient.

10 2. The device of claim 1, further comprising an elongated lead, to which said
11 electrode is fixed, that connects said electrode to said power source member and pulse generating
12 member.

13 3. The device of claim 1, further comprising a means for remotely activating said
14 power source member and said pulse generating member.

15 4. The device of claim 1, wherein said power source member comprises a high
16 impedance battery.

17 5. The device of claim 1, wherein said pulse generating member is adapted to emit
18 low amplitude, high frequency pulses.

19 6. The device of claim 1, further comprising a lead with an outside diameter of about
20 2 mm or less, to which said electrode is attached and comprises at least one extension cable

3 having a length sufficient to connect said electrode to said power source member and said pulse
4 generating member.

1 7. The device of claim 1, wherein said power source member and said pulse
2 generating member are adapted to be deactivated automatically when a predetermined electrical
3 potential is reached.

1 8. The device of claim 1, wherein said power source member and said pulse
2 generating member are adapted to be deactivated automatically after a predetermined temporal
3 period has passed.

4 9. The device of claim 1, wherein said power source member and said pulse
5 generating member are housed together within a titanium shell that is adapted to be implanted in
6 a subcutaneous pocket in the patient's abdominal wall.

7 10. The device of claim 1, wherein said pulse generating member is adapted to emit
8 electrical pulses of about 10 to 40 Hz and 1 to 5.5 V.

1 11. The device of claim 1, wherein said electrode is provided with a tip that
2 comprises an indifferent material.

1 14. A method for managing a patient's erectile dysfunction, comprising the steps of,
2 providing an implantable delivery device, comprising,
3 at least one power source member;
4 at least one pulse generating member; and
5 at least one electrode that is adapted to be implanted at the suprapubic
6 level of the patient's neurovascular bundle of the phallus, is connected to said power source
7 member and pulse generator, and is adapted to electrically stimulate the neurovascular bundle
8 upon selective activation by the patient
9 surgically implanting said device so that,
10 at least one of said power source members is implanted in the patient's
11 abdominal wall;
12 at least one of said pulse generating members is implanted in the patient's
13 abdominal wall;
14 at least one of said electrodes is implanted at a suprapubic level of the
15 patient's neurovascular bundle; and
16 selectively activating said pulse generator to generate electrical pulses through
17 said electrode to electrically stimulate the patient's neurovascular bundle.